

## CLAIMS:

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1 A communications system comprising a first communication station arranged  
for multiplexing original data packets coming from one or more original data streams in a  
combined data packet in a combined data stream and for transmitting the combined data  
stream, and means for transmitting the combined data stream from the first communication  
5 station to the second communication station through a channel, and a second communication  
station arranged for receiving the combined data stream and demultiplexing the original data  
packets in the combined data packet,  
characterized in that the combined data packet includes a header field which is arranged for  
indicating the presence of data packets of the original data streams in the combined data  
packet.

15 2. A communications system as claimed in claim 1,  
characterized in that the communications system comprises means for transmitting through a  
further channel from the first to the second communication station information about the  
structure of the combined data packets in the combined data stream.

3. A communications system as claimed in claim 1,  
characterized in that the original data streams are RTP data streams.

20 4. A communications system as claimed in claim 1,  
characterized in that the combined data stream is an RTP data stream.

5. A communications system as claimed in claim 1,  
characterized in that a bit from the header field is arranged for indicating the presence of a  
25 next header field.

6. A communications system as claimed in claim 2,  
characterized in that the information about the structure of the combined data packets contains  
a time indication for the original data stream.

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7. A communication station comprising means for indicating the multiplexing of original data packets coming from one or more original data streams in a combined data packet in a combined data stream, characterized in that the combined data packet includes a header field which is arranged for indicating the presence of packets of one of the original data streams in the combined data packet.

8. A communication station comprising means for demultiplexing original data packets coming from one or more original data streams in a combined data packet in a combined data stream, characterized in that the communication station comprises means for indicating the demultiplexing of packets from one of the original data streams in the combined data packet based on the contents of the header field.

9. A communication station as claimed in claims 7 and 8.

10. A communication station as claimed in claim 7, ~~8 or 9~~, characterized in that the communications system comprises means for indicating via a further channel information about the structure of the combined data packets in the combined data stream.

11. A communication station as claimed in claim 7, ~~8 or 9~~, characterized in that the original data streams are RTP data streams.

12. A communication station as claimed in claim 7, ~~8, 9~~, characterized in that the combined data stream is an RTP data stream.

13. A communication station as claimed in claim 7, ~~8 or 9~~, characterized in that a bit from the header field is arranged for indicating the presence of a next header field.

14. A communication station as claimed in claim 7, ~~8 or 9~~, characterized in that the information about the structure of the combined data packets includes a time indication for the original data stream.

15. A communication method for multiplexing original data packets coming from one or more original data streams in a combined data packet in an outgoing combined data stream, and transmitting the combined data packet through a communication channel, and demultiplexing original data packets coming from one or more original data streams in the combined data packet in the combined data stream, characterized in that the combined data packet includes a header field which is arranged for indicating the presence of packets of the original data streams in the combined data packet.

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